

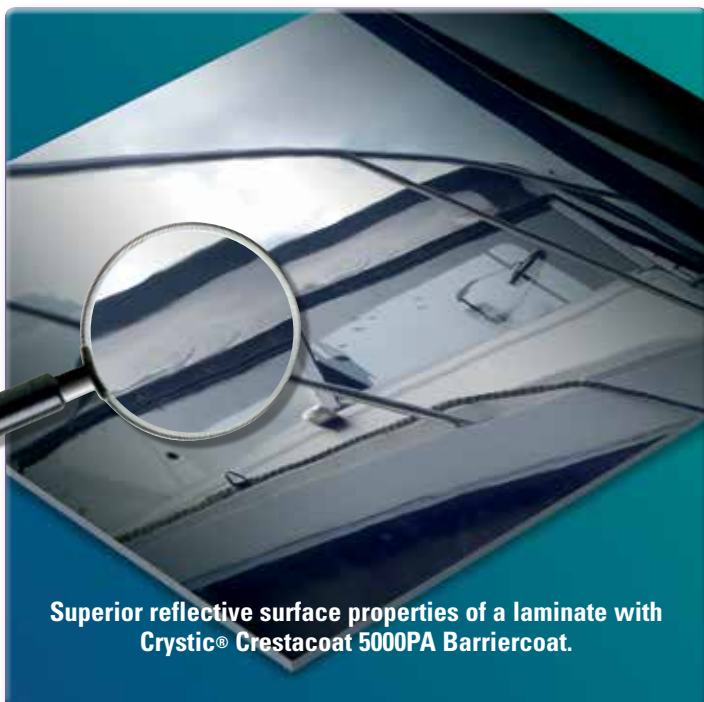
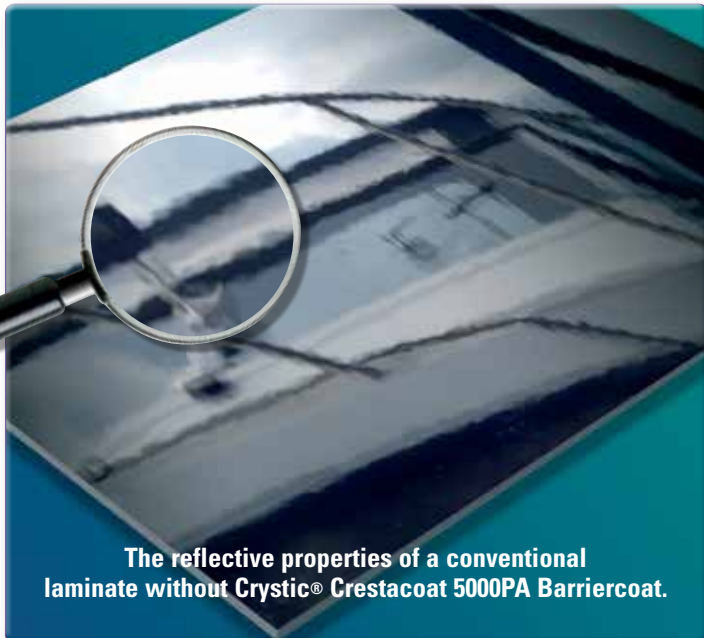
WE THINK
INNOVATION

Crystic®
Crestacoat
5000PA



Ultima GTR

A new technology barriercoat designed to significantly improve gelcoat surface aesthetics, creating a glassy, high lustre, ultra smooth finish.



Use it for making superior surface finish parts -

Fibre pattern and orange peel can often be seen on a gelcoat surface causing an undesirable gelcoat finish; darker colours, complex shapes and infused parts are especially prone to these defects. These common gelcoat surface defects can be dramatically reduced by applying a 1mm thick layer of Crystic® Crestacoat 5000PA behind the gelcoat.

Superior 'Matched System' Performance -

Crystic® Crestacoat 5000PA has been matched with Crystic® VE679PA skincoat to give the best possible surface finish and the added advantage of outstanding osmotic blistering resistance, proven in a rigorous 12-month test. This matched system can be used with confidence for marine applications or for parts used in other demanding environments, where surface aesthetics are critical.

Unique Formulation & Performance -

Crystic® Crestacoat 5000PA is based on innovative urethane acrylate technology unique to Scott Bader. The unique formulation has been proved technically to outperform both vinylester and polyester barriercoats. Use it with the knowledge that it comes with the proven quality guarantees associated with Scott Bader.

Markets

- Marine
- Land Transport
- Building
- Industrial
- Applications that require a superior gelcoat surface finish

Crystic® Crestacoat 500PA

- **Superior Surface Finish -**

Wave-scan Distinctiveness of Image (DOI) measurement (appearance standard in the automotive industry) proves Crystic® Crestacoat 5000PA is significantly better than both polyester and vinylester barriercoats in achieving a glassy, high definition, deep lustre gelcoat surface finish. The results achieved on the laminate built using Crystic® Crestacoat 5000PA would even significantly outperform many automotive spray painted parts.

- **Interlaminar Adhesion -**

Its tough, strong, flexible urethane acrylate resin backbone, as used in Scott Bader's Crystic Crestomer® structural adhesive range of products, ensures excellent adhesive properties within the laminate.

- **Use less than competitive materials -**

Only 1mm thickness is required to achieve all the product advantages.

- **Easy to apply and use –**

It can be sprayed or applied by brush and is very easy to use.

- **Lightweight Formulation –**

This means only 600g/m² is required to achieve the recommended 1mm thickness.

- **Laminate Flexibility –**

Improved by using Crystic® Crestacoat 5000PA which helps prevent gelcoat cracking.

FEATURES & BENEFITS

- **Low Exotherm –**

This means that when applied at a thickness of 1mm, Crystic® Crestacoat 5000PA can be used with confidence on very large structures.

- **Matched System –**

Crystic® Crestacoat 5000PA has been matched for use with Crystic® VE679PA skincoat resulting in a system proven to give the best surface finish.

- **Radius compound –**

It is an ideal product for making superior quality complex parts with sharp corners, as its flexible properties reduce air voids, cracking and pre-release in moulded parts where there is sharp radius in the design.

- **Blistering Resistance -**

A rigorous 12-month test has proven that Crystic® Crestacoat 5000PA can be used with confidence in a marine environment behind a Crystic high performance marine grade gelcoat with Crystic VE679PA skincoat.

- **Long-term surface quality –**

Laminates constructed using Crystic® Crestacoat 5000PA maintained a superior surface quality after being submerged in water at 40°C for 12 months, proving that it helps to maintain a high quality surface finish in the long term.



The paste is firstly catalysed and mixed thoroughly.

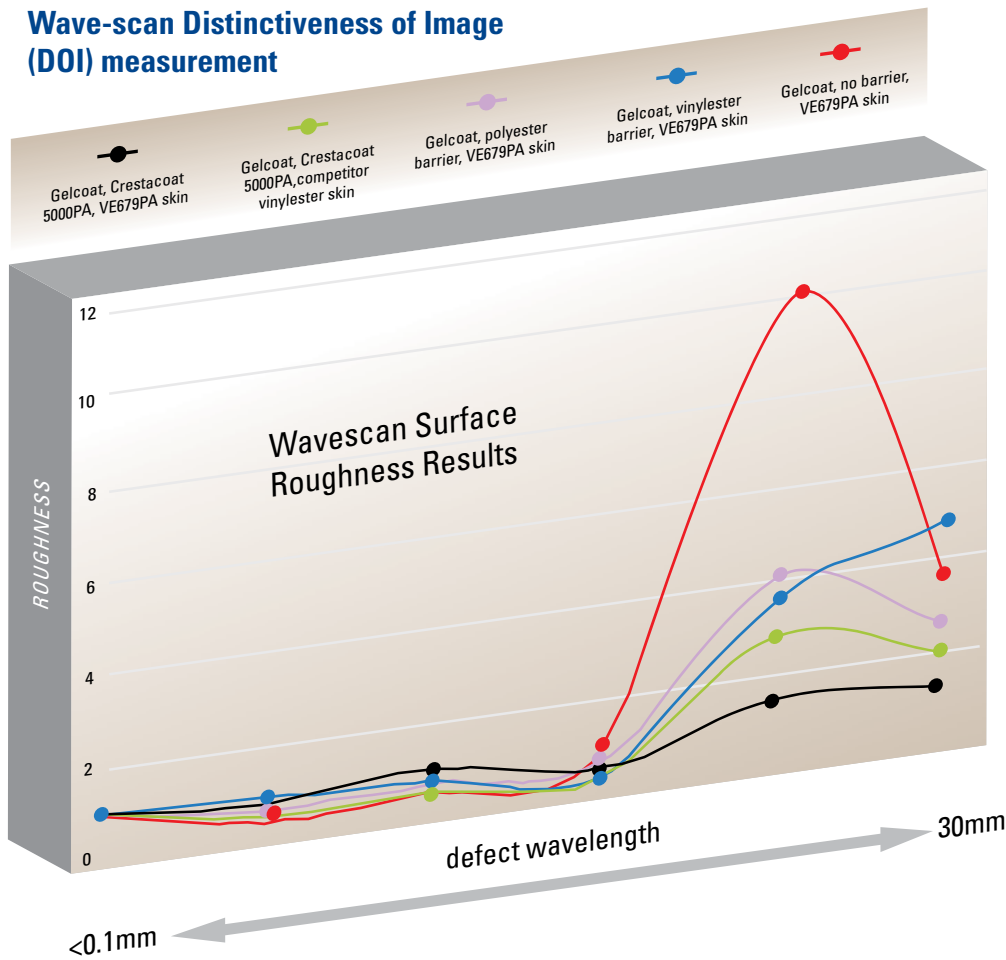


The Crystic Crestacoat 5000PA can then be applied by brush for smaller areas.



Or by spray to cover larger areas quickly and evenly.

Wave-scan Distinctiveness of Image (DOI) measurement



Short and long wave roughness

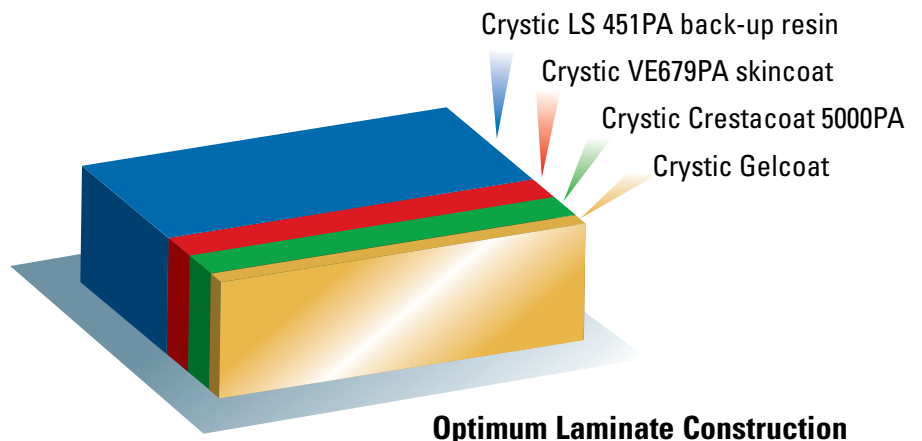
The quality of a surface differs depending if viewed close-up or far away. Hence surface waviness, or 'orange-peel', has historically been characterised using two key criteria, namely the short and long wave roughness of a surface.

Short wave roughness is observable at close ranges, around 40cm, affected by the smoothness of reflected edges.

Long wave roughness is best observed at around 3m distance and is affected by larger defects around the 1-10mm wavelength; at this distance, a high quality surface should almost look as if it is wet. The wave-scan graph shows data comparing combinations of different gelcoats and barriercoats.

Crystic Crestacoat 5000PA backed with Crystic VE679PA shows surface aesthetics superior to all other combinations. These results would even significantly outperform many spray painted parts in the automotive industry.

Crystic Crestacoat 5000PA is designed to be used behind a standard gelcoat and should be applied when the gelcoat has reached sufficient cure for normal lamination to take place. It can be brushed or sprayed to a thickness of 1mm. It is recommended that the barrier gel layer is as even as possible. As a guide, approximately 600g/m^2 of Crystic Crestacoat 5000PA will give the required thickness when evenly applied.



| Typical Properties | | |
|--|---------|----------------------------------|
| Property | Unit | Liquid Crystic Crestacoat 5000PA |
| Appearance | | Light blue paste |
| Viscosity @ 25°C | | Thixotropic |
| Specific gravity @ 25 °C | | 0.6 |
| Stability in the dark @ 20 °C | months | 3 |
| Geltime (@ 25 °C using 2% Catalyst M / Butanox M50®) | minutes | 25 |

| Typical Properties | | |
|--|------|--|
| Property | Unit | Fully cured* Crystic Crestacoat 5000PA |
| Shore Hardness | | 70 |
| Deflection temperature under load ** (1.80MPa) | °C | 58 |
| Tensile Modulus | MPa | 1050 |
| Tensile Strength | MPa | 17 |
| Elongation at break @ 20°C | % | 3.5 |

* Curing schedule – 24 hours @ 20°C, 3 hours @ 80°C

** Curing schedule – 24 hours @ 20°C, 5 hours @ 80°C, 3 hours @ 120°C

Packaging

Crystic Crestacoat 5000PA is supplied in 15kg containers.

Scott Bader Group Companies

HEAD OFFICE

Scott Bader Company Limited

Wollaston
England
Tel: +44 1933 663100
Fax: +44 1933 666139
email: enquiries@scottbader.com

Scott Bader France

Amiens
France
Tel: +33 3 22 66 27 66
Fax: +33 3 22 66 27 80
email: info_distribution@scottbader.fr

Scott Bader Spain

Barcelona
Spain
Tel: +34 93 553 1162
Fax: +34 93 553 1163
email: diazs@scottbader.es

Scott Bader Germany

Weiden
Germany
Tel: +49 961 401 84474
Fax: +49 961 401 84476
email: composites@scottbader.de

Scott Bader Ireland

Dublin
Ireland
Tel: +353 1801 5656
Fax: +353 1801 5657
email: composites@scottbader.ie

Scott Bader Scandinavia AB

Falkenberg
Sweden
Tel: +46 346 10100
Fax: +46 346 59226
email: composites@scottbader.se

Scott Bader Eastern Europe

Liberec
Czech Republic
Tel: +420 485 228 344
Fax: +420 485 228 345
email: composites@scottbader.cz

Scott Bader Croatia

Zagreb
Croatia
Tel: +385 1 240 6440
Fax: +385 1 240 4573
email: info@scottbader.hr

Scott Bader USA

Stow, OH
USA
Tel: +1 330 920 4410
Fax: +1 330 920 4415
email: info@scottbaderinc.com

Scott Bader-ATC

Drummondville
Canada
Tel: +1 819 477 1752
Fax: +1 905 681 1535
email: sales@scottbader-atc.com

Scott Bader South Africa

Hammarsdale
South Africa
Tel: +27 31 736 8500
Fax: +27 31 736 8511
email: composites@scottbader.co.za

Scott Bader Middle East Limited

Dubai
United Arab Emirates
Tel: +971 481 50222
Fax: +971 488 35319
email: info@scottbader.ae

Abahsain Scott Bader LLC

Jebel Ali
United Arab Emirates
Tel: +971 481 50 222
email: info@scottbader.ae

Scott Bader Asia Pacific

Shanghai
China
Tel: +86 (21) 5298 7778
Fax: +86 (21) 5298 8889
email: info@scottbader.cn

Satyen Scott Bader Pvt. Ltd

Mumbai
India
Tel: +91 22 4220 1555
Fax: +91 22 2491 1262
email: info@satyenpolymers.com

NovaScott Especialidades Químicas Ltda

Civit II, Serra, ES 29165-973
Brazil
Tel: +55 27 3298-1100
email: info@novascott.com.br



www.scottbader.com

Leading composites innovation for over 60 years

For more information on Scott Bader products, visit our website



All information correct at time of printing.



CRESTACOAT 5000PA 3/14 ISSUE 5